ABBREVIATIONS

ADJ	ADJACENT
ADD'L	ADDITIONAL
ALT	ALTERNATE
ALUM	ALUMINUM
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL
B/	BOTTOM OF
BFR	BLENDED FIBER REINFORCING
BLDG	BUILDING
BM	BEAM
BOT	BOTTOM
BP	BASE PLATE
BRG	BEARING
BSMT	BASEMENT
BTWN	BETWEEN
CL	CENTER LINE
CF	CUBIC FOOT/FEET
CIP	CAST-IN-PLACE
CJ	CONTROL JOINT
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CO	CLEAN OUT
COL	COLUMN
CONC	CONCRETE
CONT	CONTINUOUS
CONST JT	CONSTRUCTION JOINT
CY	CUBIC YARD
DET	DETAIL
DIAG	DIAGONAL
DIA	DIAMETER
DIM	DIMENSION
DN	DOWN
DWG	DRAWING
EA	EACH
EE	EACH END
EF	EACH FACE
ELEV	ELEVATION
ES	EACH SIDE
EW	EACH WAY
EQ	EQUAL
EOD	EDGE OF DECK
EOS	EDGE OF SLAB
EXIST	EXISTING
EXT	EXTERIOR
EXP	EXPANSION
EJ	EXPANSION JOINT
FD	FLOOR DRAIN
FLR	FLOOR
FND	FOUNDATION
FS	FAR SIDE
FTG	FOOTING
FT	FOOT/FEET
GA	GAGE
GALV	GALVANIZED
GC	GENERAL CONTRACT (OR)
GB	GRADE BEAM
HORIZ	HORIZONTAL
HP	HIGH POINT
HT	HEIGHT
ID	INSIDE DIAMETER
IF	INSIDE FACE
IN	INCH
INFO	INFORMATION
INSUL	INSULATE (D) (ION)
INV	INVERT
JT	JOINT
K	KIPS
L	ANGLE
LG	LONG
LTL	LINTEL
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LONG	LONGITUDINAL
LP	LOW POINT
LW	LONG WAY
MO	MASONRY OPENING
MS	MIDDLE STRIP
MATL	MATERIAL
MAX	MAXIMUM
MECH	MECHANICAL
MEP	MECH, ELEC & PLUMBING
MID	MIDDLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MFR	MANUFACTURE (R)
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
NOM	NOMINAL
NO OR #	NUMBER
NS	NEAR SIDE
OC	ON CENTER
OPNG	OPENING
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OH	OPPOSITE HAND
PL	PLATE
PC	PILE CAP
PCF	POUNDS PER CUBIC FOOT
PSI	POUNDS PER SQUARE INCH
PSF	POUNDS PER SQUARE FOOT
PEN	PENETRATION
QTY	QUANTITY
R	RADIUS
RE:	REFER TO
REINF	REINFORCE (D) (ING)
REQ'D	REQUIRED
REV	REVISION
SECT	SECTION
SIM	SIMILAR
SQ	SQUARE
SPEC	SPECIFICATIONS
SOG	SLAB-ON-GRADE
SS	STAINLESS STEEL
STD	STANDARD
STIFF	STIFFENER
STL	STEEL
STRU	STRUCTURAL
SW	SHORT WAY
SYM	SYMMETRICAL
T&B	TOP & BOTTOM
T/	TOP OF
THK	THICK (NESS)
TOC	TOP OF CONCRETE
TOS	TOP OF STEEL
TRANS	TRANSVERSE
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
VIF	VERIFY IN FIELD
VERT	VERTICAL
WP	WORKING POINT
W/	WITH
W/O	WITHOUT
WD	WOOD
WWF	WIRE WELDED FABRIC
WH	WEEP HOLE
WF	WIDE FLANGE SECTION
WT	TEE SECTION

EXCAVATIONJ NOTES

F1
REFER TO DIVISION 31 SPECIFICATION SECTIONS FOR REQUIREMENTS IN ADDITION TO THOSE LISTED BELOW.

F2
NOTE REQUIREMENTS ON PLANS AND IN SPECIFICATIONS FOR UNDERPINNING AND PROTECTION OF EXISTING STRUCTURES. DO NOT UNDERMINE EXISTING CONSTRUCTION.

F3
PROVIDE POSITIVE PROTECTION FOR EXCAVATION SLOPES AGAINST INSTABILITY AND DETERIORATION. REPAIR DAMAGE TO NEW OR EXISTING CONSTRUCTION INSIDE OR OUTSIDE PROJECT LIMITS CAUSED BY CONSTRUCTION TECHNIQUES.

STRUCTURAL CONCRETE NOTES

C1
SUBMIT ENGINEERED CONCRETE MIX DESIGNS, INCLUDING REQUIRED BACKUP DATA, FOR EACH TYPE OF CONCRETE PROPOSED FOR USE TO THE ENGINEER FOR REVIEW. ALLOW ADEQUATE TIME FOR REVIEW PRIOR TO PERFORMING CONCRETE WORK.

C2
DETAIL, FABRICATE, LABEL, SUPPORT AND PLACE CONCRETE REINFORCEMENT IN ACCORDANCE WITH ACI 315 "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT" AND ACI 318 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE", LATEST EDITIONS.

C3
SUBMIT DETAILED SHOP DRAWINGS INDICATING REINFORCEMENT SIZE, SPACING AND PLACEMENT TO THE ENGINEER FOR REVIEW PRIOR TO FABRICATION.

C4
COORDINATE THE LOCATION OF EMBEDDED ITEMS REQUIRED BY OTHER TRADES.

C5
DO NOT USE CALCIUM CHLORIDE IN ANY CONCRETE.

C6
REFER TO THE ARCHITECTURAL AND MEP DRAWINGS FOR PADS.

C7
REFER TO ACI 318, CHAPTER 7.7 FOR MINIMUM CONCRETE COVER REQUIREMENTS.

C8
PROVIDE ONLY CONCRETE AND REINFORCING MATERIALS OF THE TYPES AND GRADES LISTED IN THE TABLE BELOW.

CONCRETE	F'C (PSI)	UNIT WEIGHT (PCF)
UNDERPINNING	4000	150
ALL OTHER CONCRETE	4000	150
REINFORCING	**GRADE**	
TYPICAL BARS	ASTM A-615, GRADE 60	

MISCELLANEOUS

M1
CONSULT THE ARCHITECTURAL AND MEP DRAWINGS FOR LOCATION AND SIZE OF EQUIPMENT PADS AND OTHER PROJECT REQUIREMENTS.

M2
CONTRACTOR IS RESPONSIBLE FOR MEANS, METHODS AND SEQUENCE OF CONSTRUCTION AND FOR THE ADEQUACY OF THE STRUCTURE TO SUPPORT LOADS OCCURRING DURING CONSTRUCTION. FURNISH TEMPORARY BRACING, SHORING AND/OR SUPPORT AS REQUIRED.

M3
CHECK DIMENSIONS AGAINST THE REQUIREMENTS OF OTHER CONTRACT DOCUMENTS. RESOLVE APPARENT INCONSISTENCIES IN THE CONTRACT DOCUMENTS WITH THE ENGINEER BEFORE PROCEEDING WITH WORK.

M4
DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY SHOWN, USE DETAILS OF SIMILAR CONSTRUCTION, SUBJECT TO APPROVAL BY THE ENGINEER.

M5
WHEREVER THERE IS CONFLICT BETWEEN DETAILS OR TWO DETAILS APPLYING TO THE SAME CONDITION, THE ENGINEER WILL HAVE SOLE AUTHORITY TO DETERMINE WHICH DETAIL IS THE MOST APPROPRIATE FOR THE CONDITION.

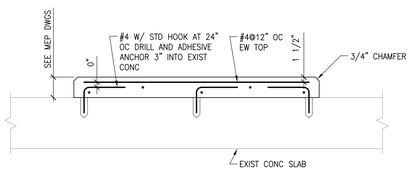
M6
SUBMIT SHOP DRAWINGS AND CALCULATIONS SEALED BY A REGISTERED PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF NEW YORK FOR EACH OF THE FOLLOWING ASSEMBLIES. COMPLY WITH THE APPLICABLE PROVISIONS OF THE SPECIFICATIONS AND BUILDING CODE.

A. UNDERPINNING.
B. OTHER ASSEMBLIES LISTED IN THE SPECIFICATIONS THAT REQUIRE ENGINEERING CALCULATIONS.

M7
PROMPTLY NOTIFY THE ENGINEER OF ANY STRUCTURAL MEMBER CALLED OUT ON THE ARCHITECTURAL AND MEP DRAWINGS THAT IS NOT IDENTIFIED ON THE STRUCTURAL DRAWINGS. DESIGN OF THESE MEMBERS WILL BE PROVIDED AS NECESSARY BY THE ENGINEER UPON NOTIFICATION.

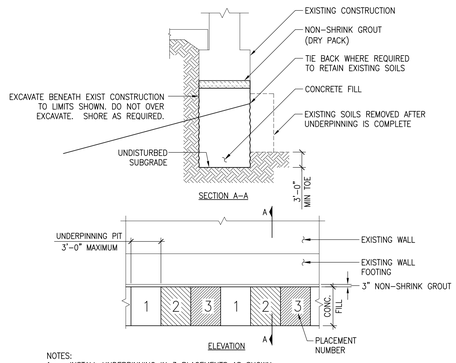
M8
THE GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE LOCATION AND PLACEMENT OF INSERTS, HANGERS AND OTHER MISCELLANEOUS ITEMS REQUIRED FOR THE SUPPORT OF MEP ITEMS SUSPENDED FROM THE STRUCTURE.

M9
DO NOT MAKE ANY MODIFICATIONS, ALTERATIONS OR REPAIRS TO THE STRUCTURE WITHOUT PRIOR REVIEW BY THE ENGINEER.



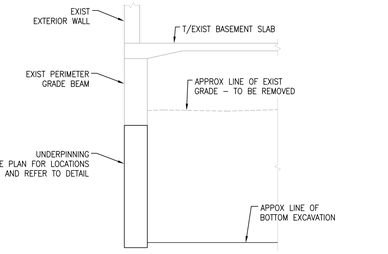
NOTES:
1. SEE ARCH MEP DRAWINGS FOR PAD SIZES AND LOCATIONS.

5 TYPICAL EQUIPMENT PAD
SCALE: 1"=1'-0"

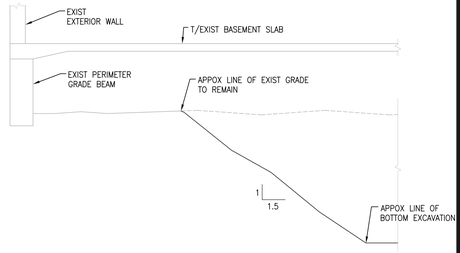


NOTES:
1. INSTALL UNDERPINNING IN 3 PLACEMENTS AS SHOWN.
2. AFTER EXCAVATION OF PLACEMENT "1" SECTIONS, THOROUGHLY CLEAN UNDERSIDE OF EXIST FOOTING.
3. FORM AND POUR FIRST PLACEMENT, LEAVING 3" MIN SPACE UNDER EXIST FOOTING FOR GROUTING.
4. REMOVE DIRT, LAITANCE, OIL, GREASE, ETC FROM BOTH NEW AND OLD SURFACES. BRING SURFACES TO A SATURATED SURFACE DRY (SSD) CONDITION.
5. ONCE CONCRETE HAS REACHED 3000 PSI, COMPLETELY PACK VOID SPACE WITH LOW SLUMP NON-SHRINK GROUT.
6. ONCE GROUT HAS REACHED 3,000 PSI, PLACEMENT "1" IS COMPLETE.
7. REPEAT ABOVE OPERATIONS FOR PLACEMENT "2" AND "3".
8. MATERIAL PROPERTIES: CONCRETE FILL = 4,000 PSI.
NON-SHRINK GROUT = 3,000 PSI AT 3 DAYS

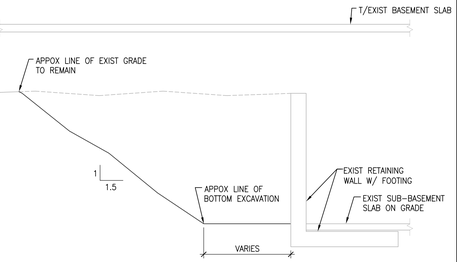
4 TYPICAL UNDERPINNING DETAIL
SCALE: NTS



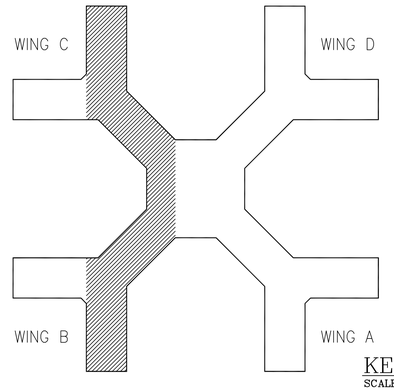
3 TYPICAL SECTION AT EXIST EXTERIOR FOUNDATION WALL
SCALE: 1/4"=1'-0"



2 TYPICAL SECTION AT EXIST EXTERIOR FOUNDATION WALL
SCALE: 1/4"=1'-0"



1 TYPICAL SECTION AT EXIST RETAINING WALL
SCALE: 1/4"=1'-0"



KEY PLAN
SCALE: NONE
N

Revisions	Date
CONSTRUCTION DOCUMENTS	09/14/12

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CARDIOLOGY MANAGER	DATE	ENGINEERING MANAGER	DATE
INFECTION CONTROL	DATE	CARELINE MANAGER	DATE
SAFETY OFFICER	DATE	CHIEF OF STAFF	DATE
MEDICAL CENTER DIRECTOR	DATE		
ASSOCIATE MEDICAL CENTER DIRECTOR	DATE		

Drawing Title: ABBREVIATIONS, GENERAL NOTES , SECTIONS AND DETAILS

Project Title: CRITICAL ELECTRICAL SYSTEM EXPANSION - WINGS B AND C

Building Number: BLDG. #1 | Checked | Drawn

Location: V.A.M.C. BUFFALO, NEW YORK

Date: September 14, 2012

Station No.: 528-P-0168

12-104-S102

Office of Facilities
Department of Veterans Affairs